

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Boysen State Park, Fremont Courts Water and Sewer System, Shoshoni, Wyoming

ARCHITECT OR ENGINEER: Robert J. Drobish, Wyoming Recreation Commission 604 East 25th Street
Cheyenne, Wyoming 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 76-151

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/24/76

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

As discussed on the phone with Mr. Yannaccone:

1. The polyethelene pipe shall be NSF approved, and 2. a section of sewer pipe and water pipe shall be centered at the point of all water and sewer line crossings.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pratt Addition, Sewer and Water City of Casper

ARCHITECT OR ENGINEER: E. C. Lenhardt, P.E. Casper Board of Public Utilities
36 West 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-152

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/24/76

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: 10" VCP Sewer line from Spruce Street to Cedar on 9th Street and a 6" water main from intersection of Ryan and Koontz to intersection of Ryan and Seiloff, Rawlins

ARCHITECT OR ENGINEER: Michael J. Winterling, P.E. City Engineer, Rawlins, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 76-154

REVIEWING ENGINEER: Frank R. Harman, P.E.

Frank R. Harman

DATE OF REVIEW: 6/23/76

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

cc: Philip Hughes, District Sanitarian P.O. Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Waterline Extension, Buffalo Bill State Park, Park Co.

ARCHITECT OR ENGINEER: G. W. Yannaceone, P.E. Wyoming Recreation Commission
604 East 25th Street, Cheyenne, Wyoming 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 76-156

REVIEWING ENGINEER: Jake Strehman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/24/76

ACTION: CONSTRUCTION AUTHORIZED (SEE COMMENTS)

COMMENTS:

In a phone conversation with Robert Probish on June 24, 1976, it was agreed that no "stop and waste" valves would be utilized in the above project.


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Northwest Pipeline Corporation, Opal Plant, Opal, Wy. Lincoln County

ARCHITECT OR ENGINEER: Walfred E. Hensala, P.E. Northwest Pipeline Company, P.O. Box
1526 Salt Lake City, Utah 84110

WATER QUALITY DIVISION REFERENCE NUMBER: 76-157

REVIEWING ENGINEER: ^{David} David W. Hill, William L. Garland, P.E. 

DATE OF REVIEW: June 21, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS: It appears that the existing lagoons will function as a full retention lagoon system providing all housing units are vacated as indicated. If the lagoon does continue discharging, DEQ must review the plans for the chlorination facility prior to installation.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Septic Tank System for Sunnyside Baptist Church, Cheyenne, Wyoming

ARCHITECT OR ENGINEER: E. P. Kelley, P.E., Submitted by Mr. Walter Noakes, 5604
Sycamore Road, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-158

REVIEWING ENGINEER: Frank R. Harman, P.E.

Frank R. Harman

DATE OF REVIEW: June 16, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Don Pack, Director, Division of Environmental Health, 315 West 20th Street,
Cheyenne, Wyoming 82001

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-158R

Sunnyside Baptist Church
(Name of Facility)

This permit hereby authorizes the applicant:

E.P. Kelley, P.E.
(Last) (First) (Middle)
5604 Sycamore Road
(Street or P.O. Box)
Cheyenne Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Wastewater Disposal System
facility located in _____
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Jones
Director
Wyoming Dept. of Environmental Quality

August 27, 1976
Date of Issuance

cc: Don Pack, Director, Environmental Health, Cheyenne-Laramie County Health
Unit, 315 W. 20th, Cheyenne, Wyoming 82001

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-159

North Sheridan Water Main Extension
(Name of Facility)

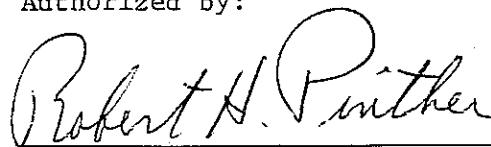
This permit hereby authorizes the applicant:

<u>City of Sheridan</u>		
(Last)	(First)	(Middle)
<u>P.O. Box 848</u>		
	(Street or P.O. Box)	
<u>Sheridan</u>	<u>Sheridan,</u>	<u>Wyoming</u>
(City)	(County)	(State)

to construct, install, or modify a Water Main Extension
facility located in Sec. 15, T.56N., R. 84W.
(Legal Description)

in the County of Sheridan, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Director
Wyoming Dept. of Environmental Quality

July 1, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Arnold Trailer Court, *Newcastle, Wyo.*

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 727, Newcastle, Wy 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 76-160

REVIEWING ENGINEER: *TDm* Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/18/76

ACTION: Not Authorized for Construction. See comments.

- COMMENTS:
1. In accordance with Ten State Standards, sewer lines between manholes shall not exceed 400 feet in length.
 2. Details shall be submitted for the sewage lift station and the pipe bridge across Cambria Creek.
 3. For mobile home court construction, it shall be required that details for mobile home connections to service lines be submitted.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-160R

Arnold Trailer Court

(Name of Facility)

This permit hereby authorizes the applicant:

Plains Engineering

(Last)

(First)

(Middle)

P.O. Box 727

(Street or P.O. Box)

Newcastle

Wyoming 82701

(City)

(County)

(State)

to construct, install, or modify a Water Distribution and Sewage Collection
facility located in Section 30, T45N, R61W
(Legal Description)

in the County of Weston, in the State of
Wyoming. This permit shall be effective for a period of 3 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Frank R. Horman P.E.

Per. Director

Wyoming Dept. of Environmental Quality

September 17, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sewage Disposal System, Centennial Valley Estates, Uinta County, Wyoming

ARCHITECT OR ENGINEER: Albrecht Surveying, Evanston, Wyoming P.O. Box 725 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 76-161

REVIEWING ENGINEER: Don Armstrong, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/25/76

ACTION: NOT AUTHORIZED

COMMENTS:

The following items must be submitted to allow adequate review:

1. Complete Construction Drawings of Lagoon, collection lines, manholes, profiles, etc.
2. Complete construction specifications which must include compaction, materials, and any other information not adequately shown on the construction drawings.

cc: J. D. Realty and Supply
P. O. Box 167
Evanston, Wyoming 82930

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Centennial Valley Estates, Sewage and Water System, Uinta County, Wyoming

ARCHITECT OR ENGINEER: John Proffit, Uinta Engineering and Surveying,
P.O. Box 746, Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 76-161R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *wsj*

DATE OF REVIEW: November 30, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

SEWAGE SYSTEM

- 1) An evaporation rate of 0.13 gal/ft. 2/day is not acceptable. The lagoon shall be constructed larger.
- 2) Compaction specifications are needed for the lagoon embankments. (i.e. - shall be compacted to 95% maximum density at optimum moisture content as determined by A.A.S.H.O. 1180 Method C or ASTM D2922-71.)
- 3) Manholes should not be spaced further than 400 feet apart. However, we will allow two manholes to be used between sta. 0+00 to sta. 8+34 provided that the distance between manholes does not exceed 430 feet.
- 4) Please enclose sewer pipe specifications. The PVC pipe shall meet ASTM standard D-3033 or D-3034.
- 5) A typical backfill-bedding detail with specifications is needed for the sewer line.
- 6) A lapping specification for alignment between manholes is needed.
- 7) The maximum amount of infiltration or exfiltration shall not exceed 200 gallons per inch of pipe diameter per mile per day. This shall be inserted into the specifications.
- 8) Leakage tests shall be specified. Either low pressure air or water testing may be used.

PROJECT: Centennial Valley Estates, Sewage and Water System, Uinta County, Wyoming

REFERENCE NUMBER: 76-161R

WATER SYSTEM

The water system must be reviewed and approved by this Department since there are more than 10 connections.

- 9) Details of the existing well are needed for review (i.e. - depth, pump, capping details, quantity, pump house details, etc.)
- 10) Storage details are needed (reservoirs, hydronuematic tanks, etc.) Storage is undoubtedly needed if fire protection is provided.
- 11) Storage tank disinfection specifications are needed. It shall be disinfected in accordance with AWWA Standard D 102.
- 12) How will a minimum pressure of 20 psi be maintained in the system? (hydronuematic tanks, booster pumps, elevated storage?)
- 13) Please enclose the PVC water line specifications. It must be "NSF" approved and meet AWWA Standard C900-75.
- 14) Details of the fire hydrant hookup is needed.
- 15) Details of the thrust blocking is needed.
- 16) The installed pipe shall be pressure tested and leakage tested in accordance with AWWA Standard C600.
- 17) The pipe shall be disinfected in accordance to AWWA standard C601.
- 18) The water line shall be looped or end in a blowoff or fire hydrant.

I assume that this subdivision is located within the Evanston City limits. Therefore, a statement stating that the project will be constructed in accordance with the "City of Evanston, Wyoming Standards and Specifications" will be sufficient to satisfy items 4,5,6,7,8,14,15, 16, and 17.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Brooks Lake Lodge Sewage Collection and Treatment, Fremont County Wyoming

ARCHITECT OR ENGINEER: Russell L. Donley, P.E. & L.S. Casper, Wyoming 82601
Western Engineering-Architects, Inc., 2111 East 2nd Street

WATER QUALITY DIVISION REFERENCE NUMBER: 76-162

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *cegg*

DATE OF REVIEW: June 25, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

cc: Forest Supervisor, 2550 Beartooth Drive, Cody, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lysle Subdivision Sewer Collection and Treatment System

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 117, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-163

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E. *REP.*

DATE OF REVIEW: 6/22/76

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: Treatment system is too small for proposed subdivision. There is no provision for industrial flows only sanitary wastes.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lysle Subdivision, Sewer Collection and Treatment System

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-163R

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

William L. Garland

DATE OF REVIEW: June 14, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Distance between the evapotranspiration bed and property lines must be 10 feet.
2. Our reference material indicates the evapotranspiration bed is too deep and the capillary action to function properly. This will cause the surcharging of the septic tank and collection lines. Please justify your design.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 75-163RR

Lysle Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Winland,	William	
(Last)	(First)	(Middle)
900 E. 8th		
	(Street or P.O. Box)	
Gillette,	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a waste treatment

facility located in Sec. 11, T49N, R72W

(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William R. Galarza
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

July 8, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Frontier Village (Water & Sewer Extension), Douglas, Wyoming

ARCHITECT OR ENGINEER: John Lambert, P.E., P.O. Box 34, Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 76-165

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/24/76

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

If PVC pipe is used for water lines, ensure that the pipe meets AWWA C-900 specifications.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Dubois Water & Sewer Line Extension Dubois, Wyoming Fremont Counts

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E. Tudor Engineering Company Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 76-166

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/25/76

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. We highly recommend the use of 8 inch sewer line and a 6 inch water line to the town shop area if future development is anticipated in the area. No further connections will be allowed on the 6 inch sewer line or 4 inch water line.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Kemmerling Mobile Home Park, Douglas, Wy. North of Douglas

ARCHITECT OR ENGINEER: John Lambert, P.E., P.O. Box 34, Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 76-167

REVIEWING ENGINEER: Jake Strohman, W.L. Garland, P.E. *WLG*

DATE OF REVIEW: 5-24-76

ACTION: Construction is not authorized

COMMENTS:

1. 4" vertical separation between top of sewer & water risers and ground surface, standing water or runoff water is required.
2. Min. diameter of manholes is 42 inches.
3. Send material specifications for septic tank construction.
4. Before an evaluation of water supply can be made, the well construction and yield should be furnished. This well can be drilled after obtaining the required permit from the State Engineers Office. Send actual pump output and pump characteristics for well.
5. Send plans to district sanitarian.
6. Backfill specifications are required.

cc: Mel Crawford, Sanitarian, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Kemmerling Mobile Home Park, Converse County

ARCHITECT OR ENGINEER: John A. Lambert, P.E., P.O. Box 34, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 76-167R

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *wsj*

DATE OF REVIEW: November 19, 1976

ACTION: CONSTRUCTION IS NOT AUTHORIZED.

COMMENTS:

If water supply source is to be used for lawn watering, car washing, etc., the other well should be put on the system immediately.

Send a chemical and bacteriological analysis of the well.

Have owner fill out application for construction permit and return.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-168

West Gas Hills Maintenance Facility Water and Sewer Plan
(Name of Facility)

This permit hereby authorizes the applicant:

Utah International, Inc.
(Last) (First) (Middle)
P.O. Box 1802
(Street or P.O. Box)
Riverton Wyoming 82501
(City) (County) (State)

to construct, install, or modify a Sewage Disposal System
facility located in Gas Hills, Wyoming
(Legal Description)

in the County of Fremont, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

This "Permit to Construct" covers only the sewage system for the maintenance facility. Presently no "permit to construct" is needed for the water supply.

Authorized by:

William L. O'Neal
Director
Wyoming Dept. of Environmental Quality

July 7, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Office Septic Tank System, Dowell Rock Springs Station, Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Johnson-Fermelia & Crank, Inc., P.O. Box 1633
Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-169

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/25/76

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. According to our standards, 750 gallon septic tanks can no longer be used. A 1000 gallon septic tank must be used.
2. The cleanout shall be protected at the ground surface by a concrete pad.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-169R

Office Septic Tank System
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Dowell - Rock Springs Station</u>		
(Last)	(First)	(Middle)
<u>(Street or P.O. Box)</u>		
<u>Rock Springs</u>	<u>Sweetwater</u>	<u>Wyoming 82901</u>
(City)	(County)	(State)

to construct, install, or modify a Wastewater Disposal System
facility located in SE $\frac{1}{4}$, Section 35, T20N, R105W, 6th P.M.
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Good
Director
Wyoming Dept. of Environmental Quality

August 3, 1976

Date of Issuance

cc: Johnson-Fermelia, and Crank, Inc., Box 1633, Rock Springs, Wyoming 82901

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Silver City Trailer Park (Cabins)

ARCHITECT OR ENGINEER: Rupert P.W. Werner, P.O. Box 21, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-170

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/23/76

ACTION: Authorized

COMMENTS:

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-171

Mullinax Water Clarifier
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Mullinax</u> (Last)	<u>J.</u> (First)	<u>D.</u> (Middle)
<u>P. O. Box 2044</u> (Street or P.O. Box)		
<u>Sheridan</u> (City)	<u>Sheridan</u> (County)	<u>Wyoming</u> (State)

to construct, install, or modify a gravel wash water clarifier
facility located in T56N, R84W
(Legal Description)

in the County of Sheridan, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Robert H. Pinther
Director
Wyoming Dept. of Environmental Quality

July 1, 1976
Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-172

Barr Nunn Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Donley</u>	<u>Russ</u>	
(Last)	(First)	(Middle)
<u>Western Engineers - Architect, Inc., 2111 E. 2nd St.</u>		
(Street or P.O. Box)		
<u>Casper</u>		<u>Wyoming 82601</u>
(City)	(County)	(State)

to construct, install, or modify a Sewage Disposal

facility located in _____
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. [Signature]
Director
Wyoming Dept. of Environmental Quality

September 2, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Barr Nunn Subdivision, Land Application, Wardwell Water and Sewer District, Casper, Wyoming

ARCHITECT OR ENGINEER: Russ Donley, P.E., Western Engineers - Architects, Inc.
2111 E. 2nd Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-172

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: September 2, 1976

ACTION: Construction Authorized (See Compliance Items)

COMMENTS:

1. Ensure land application area is fenced with signs on all four sides denoting the nature of the facility.
2. Ensure effluent transmission line from pond to land application site is leak proof.
3. To reduce the runoff to oxidation pond, the collection ditch should be protected so as to divert runoff from areas other than the land application area.
4. The drainage ditch for runoff from the North land application area shall be protected (a pipe) to preclude public access or the water in this ditch shall not contain more than 23 coliform organisms per 100 milileters. The land application may decrease the coliform count to this acceptable level. This should be checked on a regular basis during periods of land application runoff.

cc: Nix Anderson

July 16, 1976

John W. Donnell
P.O. Box 13
Worland, Wyoming 82401

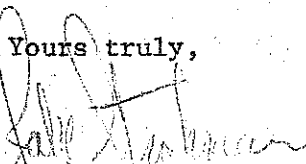
RE: Preliminary Engineering Report
for Greybull Hilltop Addition
Sewage Collection System.

Dear Mr. Donnell:

This Department has reviewed the above referenced preliminary engineering report and found the contents to be an accurate presentation of the project and effects upon the existing system.

This office makes a recommendation that PVC pipe be used in lieu of ABS pipe for sewer due to other experiences throughout the State where failures have occurred due to inelastic properties of ABS. If ABS pipe is used, stringent bedding specifications will have to be utilized.

Yours truly,


Jake Strohman
Environmental Engineer
Water Quality Division

JS/jo

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Meeteetse Water Works Improvements

ARCHITECT OR ENGINEER: John W. Donnell & Associates, P.O. Box 13, Worland, Wyoming
82401

WATER QUALITY DIVISION REFERENCE NUMBER: 76-174

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 16, 1976

ACTION: Construction Authorized (See Compliance Items)

COMMENTS:

1. Overflow and drain from water storage tank cannot have a direct connection to a domestic sewage or storm sewage line.
2. Insure accesses to storage tank have locking capabilities.
3. Put horizontal and vertical separation for water lines from other lines in the specifications.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Oasis Motel, 12 Unit Sewage Disposal, Meeteetse, Wyoming, Park County

ARCHITECT OR ENGINEER: Don Livingston, Engineering Associates, P.O. Box 1539,
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-175

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 16, 1976

ACTION: Construction Authorized (See compliance items 2 & 3 agreed by Engineer
in a phone conversation on 7-13-76)

COMMENTS:

1. Baffles and tees together at each end are not required.
2. Six inch sewer line from the motel to the septic tanks is required.
3. Install a header pipe with supports at the head of the leach field to ensure equal distribution.

cc: William George, Worland, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Bill Wylie Trailer Court, Septic System, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: Wayne L. Johnson, P.E., P.O. Box 1633, Rock Springs,
Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-176

REVIEWING ENGINEER: ^{DWH}David W. Hill, William L. Garland, P.E. *WJG*

DATE OF REVIEW: July 8, 1976

ACTION: Not Authorized For Construction

COMMENTS:

- 1) The septic tank system shall be designed on the basis of 100 gallons per capita per day - Wyoming Water Quality Rules and Regulations, Chapter III, Appendix A. The septic tank and leach field must be designed for this flow.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-176R

Septic System

(Name of Facility)

This permit hereby authorizes the applicant:

Wylie

(Last)

Bill

(First)

(Middle)

(Street or P.O. Box)

Rock Springs

(City)

Wyoming

(County)

(State)

to construct, install, or modify a Waste Treatment Facility
facility located in NE¹/₄, SW¹/₄, Section 12, T18N, R106W
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gaudin

Director

Wyoming Dept. of Environmental Quality

July 30, 1976

Date of Issuance

cc: Johnson-Fermelia and Crank, Inc., P.O. Box 1633, Rock Springs, Wyoming 82901

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sage Ranch No. 1 and Ball Addition, Town of Marbleton, Sewer and Water Extension, Marbleton, Wyoming, Sublette County

ARCHITECT OR ENGINEER: Robert Harrower, P.E., P.O. Box 67, Rio Verde Engineering, Pinedale, Wyoming 82941

WATER QUALITY DIVISION REFERENCE NUMBER: 76-179

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *wdg*

DATE OF REVIEW: July 12, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) According to Mr. Harrower, a manhole has been provided for at Sta. 3+83 but was inadvertently left off the plans.
- 2) Specifications should be submitted detailing the disinfection procedures for the waterline. Once this is done satisfactory, we will authorize construction.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-179R

Water and Sewerline Extension

(Name of Facility)

This permit hereby authorizes the applicant:

Sage Ranch No. 1 and Ball Addition

(Last)

(First)

(Middle)

(Street or P.O. Box)

Marbleton

Wyoming

(City)

(County)

(State)

to construct, install, or modify a Water and Sewer line
facility located in Marbleton, Wyoming
(Legal Description)

in the County of Sublette, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gabel

Director

Wyoming Dept. of Environmental Quality

July 27, 1976

Date of Issuance

cc: Robert Harrower, P.E., Rio Verde Engineering, P.O. Box 67, Pinedale, Wyoming 82941

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Livingston Subdivision, Sheridan County

ARCHITECT OR ENGINEER: Walter J. Pilch and Associates, P.O. Box 6498,
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 76-180

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 22, 1976

ACTION: Not Authorized For Construction. See Comments.

COMMENTS:

1. How will sludge disposal from the extended aeration plant be accomplished?
2. The water table below the second lagoon is too high and too close to Little Goose Creek to allow percolation from the lagoon. Both lagoons must be impermeably lined.
3. The value of 0.17 gallons/square ft.- day is excessive for open pan evaporation.
4. The East bank of the second lagoon must be protected from erosion along the North-East corner.
5. Basic operational data for the extended aeration plant shall be provided, as outlined in Section 72 of Ten State Standards.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 76-180R

Livingston Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Livingston

(Last)

Amil

(First)

(Middle)

c/o Walter J. Pilch and Associates, P.O. Box 6498

(Street or P.O. Box)

Sheridan

(City)

Sheridan

(County)

Wyoming

(State)

to construct, install, or modify a Water Supply and Sewage Treatment

facility located in Section 27, T55N, R84W

(Legal Description)

in the County of Sheridan, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Gable

Director

Wyoming Dept. of Environmental Quality

August 4, 1976

Date of Issuance

NOTE: ALL FACILITIES OF THIS TYPE REQUIRE WYOMING CERTIFIED WATER/WASTEWATER OPERATORS, TO BE IN CHARGE OF THE PLANT WHEN IT IS STARTED UP.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Saratoga - Additions and modifications to the City Sewage lagoon system.

ARCHITECT OR ENGINEER: Richard W. Wilke, Director of Engineering USDA Forest Service Rocky Mt. Region 11177 West 8th Avenue, Lakewood, Colorado 80225

WATER QUALITY DIVISION REFERENCE NUMBER: 76-181

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 21, 1976

ACTION: Authorized for Construction.

COMMENTS:

cc: Phillip Hughes, Regional Supervisor, Environmental Surveillance and Control,
Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Gillette R. V. Park, Campbell County

ARCHITECT OR ENGINEER: Timm & Associates, Box 726, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-182

REVIEWING ENGINEER: *TM* Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 20, 1976

ACTION: Not Authorized for Construction

COMMENTS:

Due to inadequate water supply in the City of Gillette, no additions to the City water system will be authorized until sufficient steps are taken to provide an adequate, potable water supply. This Division will retain the plans submitted until such time as a final review is appropriate.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Gillette R.V. Park

ARCHITECT OR ENGINEER: Timm and Associates, P.O. Box 726, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-182

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: August 9, 1976

ACTION: Not Authorized for Construction. See Comments.

COMMENTS:

- 1) The maximum distance from a cleanout to a manhole shall be 150 ft. For distances greater than this, manholes shall be required.
- 2) Infiltration into the sewers shall not exceed 200 gallons per inch of diameter per mile of pipe per day.
- 3) Out fall into Donkey Creek Manhole 36 shall be drop manhole construction.
- 4) Water supply pipe shall meet AWWA specifications C900.
- 5) Please answer the following questions on the dump station:
 - a) How is it to be pumped into the sewer system?
 - b) How will the water supply be arranged so as to prevent accidental cross-connection?

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: FMC Corporation Skull Point Coal Facility, Sanitary Sewer,
Kemmerer, Wyoming, Lincoln County

ARCHITECT OR ENGINEER: Jerry K. Mueller, P.E., Morrison-Knudsen Company, Inc.
400 Broadway, Boise, Idaho 83729

WATER QUALITY DIVISION REFERENCE NUMBER: 76-183

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WJG*

DATE OF REVIEW: July 19, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) All design data (population served and flows) must be submitted to determine if the leaching area is sized properly.
- 2) Please indicate the design percolation rate.
- 3) Indicate the size of the septic tank. It must have a 24-hr. detention time.
- 4) The ends of the leach lines should be connected.
- 5) Indicate where the bay washings go. This is considered to be wastewater and must be treated or retained.
- 6) At the present time, no "Permit to Construct" is needed for the water supply system.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Highland Hills Subdivision, Campbell County

ARCHITECT OR ENGINEER: Christian, Spring, Sielbach & Associates
2020 Grand Avenue, Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 76-184

REVIEWING ENGINEER: *Tom* Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 20, 1976

ACTION: Not Authorized for Construction

COMMENTS:

Due to inadequate water supply in the City of Gillette, no additions to the City water system will be authorized until sufficient steps are taken to provide an adequate, potable water supply. This Division will retain the plans submitted until such time as a final review is appropriate.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Highland Hills Subdivision

ARCHITECT OR ENGINEER: Christian, Spring, Sielbach and Associates,
2020 Grand Avenue, Billings, Montana

WATER QUALITY DIVISION REFERENCE NUMBER: 76-184

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: August 9, 1976

ACTION: Not Authorized for Construction. See Comments. *WLG*

COMMENTS:

- 1) Sewer runs along Columbine, Marigold, Poinsettia, Rosebud and Ventura shall be limited to 400 ft. between manholes.
- 2) Infiltration into sewer lines shall be less than 200 gallons per inch diameter per mile per day.
- 3) The water line terminating at Ventura Avenue and Astor Drive shall be looped into the water system or have a hydrant placed at its termination.
- 4) Water pipe specification ASTM - 2241 is incomplete unless the PVC pipe material is also specified. (All PVC water pipe must meet AWWA C900.)

cc: Roger Krum, CSS & A, 510 South Gillette Avenue, Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-184R

Highland Hills Subdivision - Temporary Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

Christian, Spring, Sielbach and Associates for

Kerr McGee Coal Company

(Last)

(First)

(Middle)

2020 Grand Avenue

(Street or P.O. Box)

Billings

(City)

Montana 59102

(County)

(State)

to construct, install, or modify a Sewage Collection and Water Distribution
facility located in The City of Gillette
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. O'Neal
Director
Wyoming Dept. of Environmental Quality

November 9, 1976

Date of Issuance

NOTE: THE FOLLOWING STATE AGENCIES MUST ALSO APPROVE MOBILE HOME
PARKS: ENVIRONMENTAL SURVEILLANCE AND CONTROL, DEPARTMENT
OF HEALTH AND SOCIAL SERVICES, HATHAWAY BUILDING, CHEYENNE,
WYOMING 82002 AND THE DEPARTMENT OF FIRE PREVENTION AND
ELECTRICAL SAFETY, 2015 CENTRAL AVENUE, CHEYENNE, WYOMING
82002. SINCE WE HAVE ONLY ONE SET OF APPROVED PLANS WE ARE
UNABLE TO FORWARD COPIES TO THE ABOVE MENTIONED AGENCIES.

cc: Robert Coffman
State Fire Marshal


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Sewer Improvements to serve Highland Hills Subdivision

ARCHITECT OR ENGINEER: Christian, Spring, Sielbach and Associates
2020, Grand Avenue, Billings, Montana

WATER QUALITY DIVISION REFERENCE NUMBER: 76-185

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. 

DATE OF REVIEW: August 9, 1976

ACTION: Not Authorized for Construction. See Comments,

COMMENTS:

1. Infiltration into the sewers shall not exceed 200 gallons per inch diameter per mile per day.
2. Manhole #1, the existing manhole, is to be constructed as a drop manhole.
3. Please verify that the existing sewer at Manhole #1 is 12 inch or larger.
4. Will crossing specifications for the highway be similar to those for the railroad.

cc: Roger Krum, CSS & A, 510 South Gillette Avenue, Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-185R

Sewer Improvements to Serve Highland Hills Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Highland, Inc.
(Last) (First) (Middle)
2020 Grand Avenue, c/o Christian, Spring, Seilbach & Associates
(Street or P.O. Box)
Billings Montana 59102
(City) (County) (State)

to construct, install, or modify a Sewer Line Extension
facility located in Section 21, T50N, R72W
(Legal Description)
in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Garland
Director
Wyoming Dept. of Environmental Quality

September 22, 1976
Date of Issuance

July 14, 1976

Lee Graham
Graham & Associates
P.O. Box 348
Cody, Wyoming 82414

Dear Mr. Graham:

RE: 76-186 Pahaska Teepee Sewage Disposal.

The preliminary plan for the above referenced project appears to be a feasible alternative. However, the design for furnishing air to treat the BOD₅ was not submitted. What is the characteristics and capabilities of the existing air equipment? What is the oxygen transfer efficiency? What flow is the facility designed for?

What volume of flow is the septic tank and leach field to be designed for? Is this an existing system? What is the percolation rate in the area of the leach field?

Recommend the overflow line and the outfall at the proposed detention pond have capabilities of level adjustment. This would allow the ponds to be operated in such a manner that winter operation may not require a discharge or a batch discharge could be utilized.

When the final design is furnished, this office will look in detail at the soil characteristics which will be used in the construction of the new pond. Also the emergency overflow should have a leak proof valve and should be sealed, and this Department notified if it is ever utilized. The lift station should also be furnished in duplicate.

Should any questions arise do not hesitate to contact us.

Yours truly,

Jake Strohman
Environmental Engineer
Water Quality Division

JS/jo
Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: 4/J Development Inc., 4-J Subdivision (Phase one) Sewer and water

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 900, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-187

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 29, 1976

ACTION: Not Authorized for Construction, see comments.

COMMENTS:

Everything except the source of supply is acceptable. As soon as it can be demonstrated that there is an adequate source of supply the project can be authorized for construction.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-187

4-J Development, Inc.

(Name of Facility)

This permit hereby authorizes the applicant:

4-J Development, Inc.

(Last)

(First)

(Middle)

P.O. Box 900

(Street or P.O. Box)

Gillette

(City)

Campbell

(County)

Wyoming

(State)

to construct, install, or modify a Sewage Collection/Water Distribution System
facility located in Section 34, T50N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

NOTE: A WYOMING REGISTERED WATER/WASTEWATER OPERATOR IS REQUIRED FOR ALL
PUBLIC WATER SUPPLIES/SEWAGE TREATMENT PLANTS.

Authorized by:

William P. [Signature]

Director

Wyoming Dept. of Environmental Quality

August 6, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Skylark Construction Sewage & Wastewater Disposal, Section 17, T32N, R71W

ARCHITECT OR ENGINEER: John Lambert, P.E., P.O. Box 34, Douglas, Wyoming 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 76-188

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: June 24, 1976

ACTION: Construction Authorized

COMMENTS: The floor drain leach pit is only designed for 225 gallons per day.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Dakota Steel Company, Section 17, T32N, R71W

ARCHITECT OR ENGINEER: John Lambert, P.O. Box 34 Douglas, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 76-189

REVIEWING ENGINEER: *JS* Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: 6/24/76

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Park Village, Water System, Jackson, Wyoming, Teton County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E., Box 1142, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-190

REVIEWING ENGINEER: ^{DWH}David W. Hill, ^{WJG}William L. Garland, P.E.

DATE OF REVIEW: July 20, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) The specifications covering the "Polyvinyl Chloride Pipe and Fittings" (2E-03) should include the provision that all plastic pipe must be NSF approved.
- 2) The manhole over the 8000 gallon reservoir shall be fitted with a solid watertight cover which overlaps the opening and extends down around the manhole at least two inches. It shall be hinged and shall have a locking device.
- 3) The drain lines shall be located at least 2 feet above the spill line of the ditches. Please indicate the spill line on sheet 6 of 7.
- 4) The return line from the pressure relief valve to the well will not be allowed. The line could go vertically and discharge above the ground.
- 5) A drainage pit should be provided in the manhole near the well site.
- 6) The well casing shall be surrounded by at least 4 inches of grout extending to a depth of 10 feet. This should be shown on the plans and grouting details specified in the specifications.
- 7) The check valve should be located within the well.

PROJECT: South Park Village, Water System, Jackson, Wyoming, Teton County

REFERENCE NUMBER: 76-190

- 8) Every new water supply source shall be examined for chemical characteristics by tests of a representative sample in a private laboratory. The results shall be submitted to our Department.
- 9) The South Park Village water supply needs to be bacteriological tested each month. Please contact Mr. Robert Pinther of this office to set up a bacteriological testing program.
- 10) Please have the developer, Mr. Childs fill out and submit the "Application for Permit to Construct, Install, or Modify" sheet.

The resubmission of plans and specifications to meet comments 1,2,3,4,5,6,7 and 10 will suffice to obtain a "Permit to Construct."

DWH/jo

Enclosures: 2- Application for Permit to Construct

cc: Mr. Doyle Child, Hoback Reality and Ranches, Box 324, Jackson, Wyoming
83001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Park Village Water System, Jackson, Wyoming, Teton County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E., Box 1142, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-190R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *and g*

DATE OF REVIEW: August 9, 1976

ACTION: Not Authorized for Construction

COMMENTS:

1. If future fire protection is anticipated, 6-inch diameter water mains must be used. However, because of the nature of the subdivision 4-inch diameter water mains will be allowed. We will not allow mains smaller than 4-inches to be used.
2. Please provide details on the sanitary well cover used. It must be vented and have an access port for measuring water depth.

cc: Doyle Childs, Hoback Realty, P.O. Box 324, Jackson, Wyoming 83001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Park Village Water System, Jackson, Wyoming, Teton County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, P.E., Box 1142, Jackson, Wyoming
83001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-190RR

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *weg*

DATE OF REVIEW: August 31, 1976

ACTION: Authorized for Construction

COMMENTS:

If 4-inch PVC pipe is used in the project, it shall meet AWWA standard C900-75 for Polyvinyl Chlorid (PVC) Pressure Pipe 4in. - 12 in. The Engineer has agreed to this by telephone.

cc: Doyle Childs, Hoback Realty, Box 324, Jackson, Wyoming 83001

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 76-190RR

☐ Modified

South Park Village Water System
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Childs</u> (Last)	<u>Doyle</u> (First)	<u>Hoback Ranches, Inc.</u> (Middle)
<u>P.O. Box 324</u> (Street or P.O. Box)		
<u>Jackson</u> (City)	<u>Teton</u> (County)	<u>Wyoming 83001</u> (State)

to construct, install, or modify a Water Supply System
facility located in Section 17, T40N, R117W
(Legal Description)

in the County of Teton, in the State of
Wyoming. This permit shall be effective for a period of 5 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gales
Director
Wyoming Dept. of Environmental Quality

September 1, 1976
Date of Issuance

cc: Peter M. Jorgensen, P.E., P.O. Box 1142, Jackson, Wyoming 83001

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-191R

Rawhide Village III
(Name of Facility)

This permit hereby authorizes the applicant:

Terra Development Corporation

(Last) (First) (Middle)

P.O. Box 900

(Street or P.O. Box)

Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Public Water Supply/Sewage Treatment
facility located in Section 20, T51N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

NOTE: THIS PERMIT AUTHORIZES CONSTRUCTION OF ONLY THAT PORTION OF RAWHIDE IV
NECESSARY TO SUPPLY THE RAWHIDE III WATER SYSTEM. THIS PERMIT DOES NOT ABSOLVE
THE PERMITTEE OF ANY LIABILITIES HE MAY HAVE UNDER SECTIONS 18 AND 49 OF THE
WYOMING ENVIRONMENTAL QUALITY ACT. Authorized by: (W.S. 35-502). THESE
FACILITIES MUST HAVE OF STARTUP.

William P. Garland
Director

Wyoming Dept. of Environmental Quality

September 1, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Rawhide Village III

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 117, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-191

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: August 11, 1976

ACTION: Not Authorized For Construction. See Comments.

COMMENTS:

1. Details of the water supply shall be submitted, i.e., the well and the storage tank, with all appurtenances, such as vents, access manholes, valves, drains, piping, bypasses, materials, etc.
2. Subsurface pumprooms are not recommended. The pumproom shall be located above ground or shall drain above ground.
3. PVC sewer pipe must meet ASTM D-3033 or D-3034.
4. Is the water system to be interlocked with the supply for Rawhide I and II?

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pye Subdivision Water and Sewer Plans (Pye Court), Cheyenne, Wyoming

ARCHITECT OR ENGINEER: Bob Westerfield, Westerfield Engineering, P.O. Box 2301,
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-192

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 21, 1976

ACTION: Authorized For Construction

COMMENTS:

cc: Don Pack, Director, Environmental Health, Cheyenne-Laramie County Health Unit,
315 W. 20th, Cheyenne, Wyoming 82001

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-193

Elk Mountain Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Weston Land, Inc.
(Last) (First) (Middle)
c/o Plains Engineering, P.O. Box 727
(Street or P.O. Box)
Newcastle Wyoming 82701
(City) (County) (State)

to construct, install, or modify a Water Distribution and Sewage Collection
facility located in Sec. 28, T45N, R61W
(Legal Description)

in the County of Weston, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Ireland
Director
Wyoming Dept. of Environmental Quality

August 20, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Holly Sugar (Worland) Waste Lime Retention Ponds

ARCHITECT OR ENGINEER: None listed Holly Sugar Corporation
Box 1502, Colorado Springs, Colorado 80901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-194

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *WLG*

DATE OF REVIEW: July 16, 1976

ACTION: Construction not Authorized

COMMENTS:

1. State law requires the seal or signature of the designing engineer licensed to practice in the State of Wyoming.
2. State the ASTM specification and the amount of compaction to be utilized in dike construction.
3. Is this soil compatible for dike construction? What type of percolation rates are involved in the area of the ponds?
4. The standpipe pond level regulators appear to be susceptible to freezing. Recommend that the inverted manhole type be evaluated for this use.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 76-194R

Holly Sugar Lagoon

(Name of Facility)

This permit hereby authorizes the applicant:

Nelson

(Last)

LaVerne

(First)

(Middle)

Holly Sugar Corporation, P.O. Box 1052

(Street or P.O. Box)

Colorado Springs

(City)

Colorado 80901

(State)

to construct, install, or modify a Lime Wastewater Lagoons

facility located in ½ miles South of Worland

(Legal Description)

in the County of Washakie

, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galarza

Director

Wyoming Dept. of Environmental Quality

September 1, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Granite Springs Retreat, 1st Filing, Laramie County, Wyoming

ARCHITECT OR ENGINEER: Corbet and Braman Land Surveyors, 1412 Campbell, Cheyenne,
Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-195

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 21, 1976

ACTION: See Comments (Preliminary approval given) Permit to construct withheld
pending receipt of detailed plans in each case.

COMMENTS:

First Filing Plat of project too general in nature for this Department to review. The lot sizes are above 5 acres in each lot and this makes the lots satisfactory for private wells and sewage disposal systems. However, each lot, with its utilities, will need to be reviewed and approved on an individual basis.

cc: Don Pack, Director Environmental Health, Cheyenne-Laramie County Health Unit,
315 W. 20th, Cheyenne, Wyoming 82001
Laramie County Planning Office, 702 W 19th, Cheyenne, Wyoming 82001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Glendo State Park - Water Well and Hand Pump, Platte County

ARCHITECT OR ENGINEER: Robert Drobish, Wyoming Recreation Commission,
604 East 25th Street, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-196

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: July 23, 1976

ACTION: Authorized For Construction

COMMENTS:

cc: Gena Wright, Platte County Sanitarian
P.O. Box 55, Wheatland, Wyoming 82201

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Boysen State Park, Water Well and Hand Pump, Fremont County, Shoshoni, Wyoming

ARCHITECT OR ENGINEER: Robert J. Drobish, Wyoming Recreation Commission,
604 East 25th Street, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-197

REVIEWING ENGINEER: ^{Just} David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: August 3, 1976

ACTION: No Review is Needed

COMMENTS:

This system does not qualify under our present regulations as a public water supply. However, the design does appear to meet our minimum design standards.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lift Station - Sewer Line, Farson, Wyoming, Sweetwater County

ARCHITECT OR ENGINEER: Johnson-Fermelia and Crank, Inc., P.O. Box 1633,
Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-199

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *Wesley*

DATE OF REVIEW: August 3, 1976

ACTION: Not Authorized For Construction

COMMENTS:

- 1) Manholes shall be installed at all changes in alignment and at distances not greater than 400 feet apart. One manhole should be installed in the 0+00 to 8+35 line and another manhole installed at around Sta. 11+50. The lines between the manholes - lift station could be straighten out. Better yet, why not have a line run directly from the existing manhole to the lift station? This would forgo the need of two manholes and much sewer line.
- 2) Please provide a detailed drawing of the lift station.
- 3) Please provide a detailed drawing of the manholes to be used.
- 4) Details of the highway crossing must be shown. I assume casing will be used.
- 5) The lagoon for the Oregon Trail Trailer Park Court appears to be too small to remain full retention after the addition of this wastewater. Will the lagoon be enlarged to handle the additional flow, or will a discharge permit be applied for? I must stress that effluent from this lagoon will be required to meet secondary effluent standards.
- 6) Please provide information on how the force main enters the gravity sewer system. PVC pipe with a SDR of 35 will not suffice for use as a force main.

cc; Gary Pennock, Farson, Wyoming 82932

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lift Station - Sewer Line, SW $\frac{1}{4}$, Sec. 27, T25N, R106W, Farson, WY,
Sweetwater County

ARCHITECT OR ENGINEER: Wayne L. Johnson - Johnson, Fermelia & Crank, Inc.,
P.O. Box 1633, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-199R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: October 14, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

SEWER LINE

1. Our rules and regulations require a sewer line slope of at least 0.60%, if possible for 6 inch line. We realize that this is not possible due to the contour of the land. However, we will not accept a slope of 0.25%.
2. The casing size is too small for the 6 inch line. A 12 inch casing is needed.
3. More details are needed on the pulling of the pipe through the casing. Wooden skids (at least 2, preferably 4) are needed. These skids should extend for the length of the pipe section except for the bell-spigot area. These skids should be high enough to allow for clearance between the bell and the casing.
4. A typical backfill-bedding detail with specifications is needed.

LIFT STATION

5. The wet well floor shall have a minimum slope of 1 to 1 to the hopper bottom.
6. Can the submersible pumps be easily removed and replaced without dewatering the wet well?
7. Please indicate where the control panel is located. It shall not be placed in the wet well.

PROJECT: Lift Station - Sewer Line, SW $\frac{1}{4}$, Sec. 27, T25N, R106W, Farson, WY
Sweetwater County

REFERENCE NUMBER: 76-199R

8. Forced venelation shall be required if the lift pumps cannot be removed without entering the wet well.
9. An alarm system is needed such as a high water level alarm.
10. Plans and specifications must also be submitted to us covering the new full retention lagoon.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 21, 1980

Curtis Martin
Sandy Crossing Enterprises
Box 63
Farson, WY 82932

Subject: Request for Extension of Construction Permit 76-199R

Dear Mr. Martin:

Your request for extension of construction permit numbers 76-199R has been received.

The conditions for renewal of a permit are outlined in Section 9 of Chapter III of the Wyoming Water Quality Act (copy enclosed).

Because the conditions of Section 9 have not been met and due to deficiencies in the originally approved plans (see attached memorandum), we cannot grant your request. If you wish to pursue a construction permit, the plans must be revised to correct the deficiencies and be submitted along with a construction permit application (forms enclosed) for review and approval.

If you have any questions about this, please feel free to contact us about them.

Sincerely,

A handwritten signature in cursive script, reading "William L. Garland".

William L. Garland
Administrator
Water Quality Division

WLG/jn

Attachments

cc: District 3, Lander Office
Johnson, Fermelia & Crank, Inc., Rock Springs

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 76-199R

Farson Mercantile - Oregon Trails Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

Homan, Jacob

(Last)

(First)

(Middle)

(Street or P.O. Box)

Farson,

(City)

Sweetwater

(County)

Wyoming

(State)

to construct, install, or modify a lift station, sewer line, & evaporation lagoon
facility located in Sec. 27, T25N, R106W
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Chelton
Administrator
Water Quality Division

Robert E. Auerbach
Director
Wyoming Dept. of Environmental Quality

July 8, 1977

Date of Issuance

9. The type of level control switches used in the wet well should be specified so that we can determine their acceptability.

II. Sewer Mains:

1. The 6-inch sewers are designed at too flat a grade (0.416%). The velocity in the pipe would only be about 1.9 fps at the flow specified on the plans.
2. The engineer proposes putting clean outs for the gravity sewers in manholes.

III. Lagoon:

1. A fence is needed around the lagoon. Appropriate warning signs should be placed on it.
2. The engineer designed the lagoon as an evaporative system. He used an evaporation rate of 48 inches/year and a precipitation rate of 8 inches/year. Considering only cell #1 (2.79 acres) there would be an excess inflow of about 1/8-inch per day at the design flow. If exfiltration from cell #1 is greater than 1/8-inch per day, the ponds would not be capable of maintaining minimum water depths. This could create anerobic conditions, promote excessive weed growth on the lagoon bottom and promote mosquito breeding.

The design should be carefully reviewed. A mass balance of the wastewater should be conducted taking into account the climatic conditions of the area, exfiltration from the lagoon and an operational program.

3. The lagoon should have a minimum free board of three feet. Only one foot is proposed.
4. The design should provide a minimum operational depth of two feet.
5. Elevation of the lagoon inlet pipe, transfer pipe and dike should be shown.
6. The depth to the seasonally high groundwater should be shown.
7. The dike construction materials should be specified.

TC/mlb

*Chor*ED HERSCHLER
GOVERNOR*Department of Environmental Quality**Water Quality Division*

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Jake Strohman

FROM: Theodore D. Coyer *TDC*

DATE: Novmeber 14, 1980

SUBJECT: Construction Permit Renewal Request - 76 - 199R
Farson Mercantile - Oregon Trails Mobile Home Park
Sweetwater County

As you requested, I have reviewed the plans for the above project. My comments are listed below:

I. Raw Sewage Lift Station

1. Gate valves are needed in the pump discharge piping.
2. The gate valves and check valves should not be located in the raw sewage wet well.
3. The sewage from the lift station should enter the gravity sewer at a manhole. The current design would have the sewage enter the gravity sewer directly from the force main.
4. The wet well bottom should be sloped to the pump suction.
5. Water level controls should be set such that the pump motors will always be submerged. This would require the wet well to be deepened.
6. At the rated capacity of the pumps (100gpm @ 12 foot), neglecting the pump and friction losses, the velocity in the force main would be 1.9fps. However, the static lift would be about 12.5 feet. Therefore, the velocity would be even less.
7. According to T.S.S., a landing is required in a wet well over 15 feet deep. This wet well would be 16-17 feet deep, but I think it would be impractical to install a landing. I would suggest pumps on slide rails with quick disconnects be installed.
8. Specifications for the steps in the wet well should be included on the plans. Steps in wet wells are very dangerous unless they are of the non-corroding type.